

180

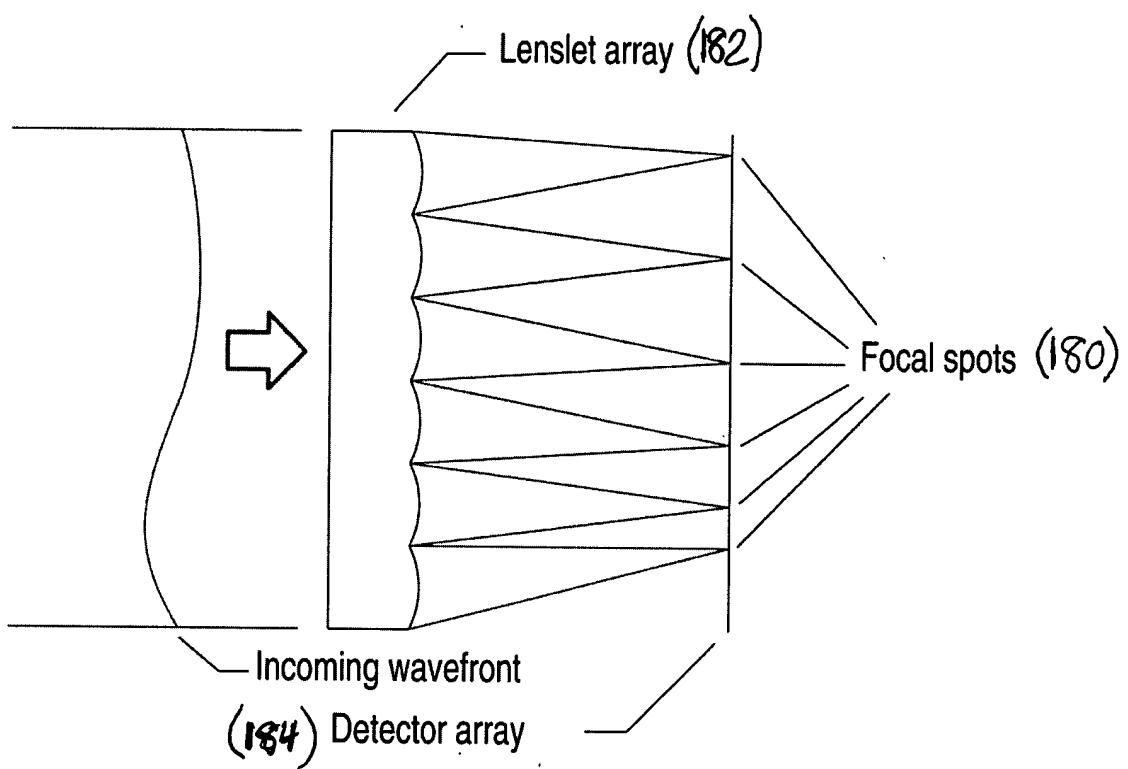


FIG. 1

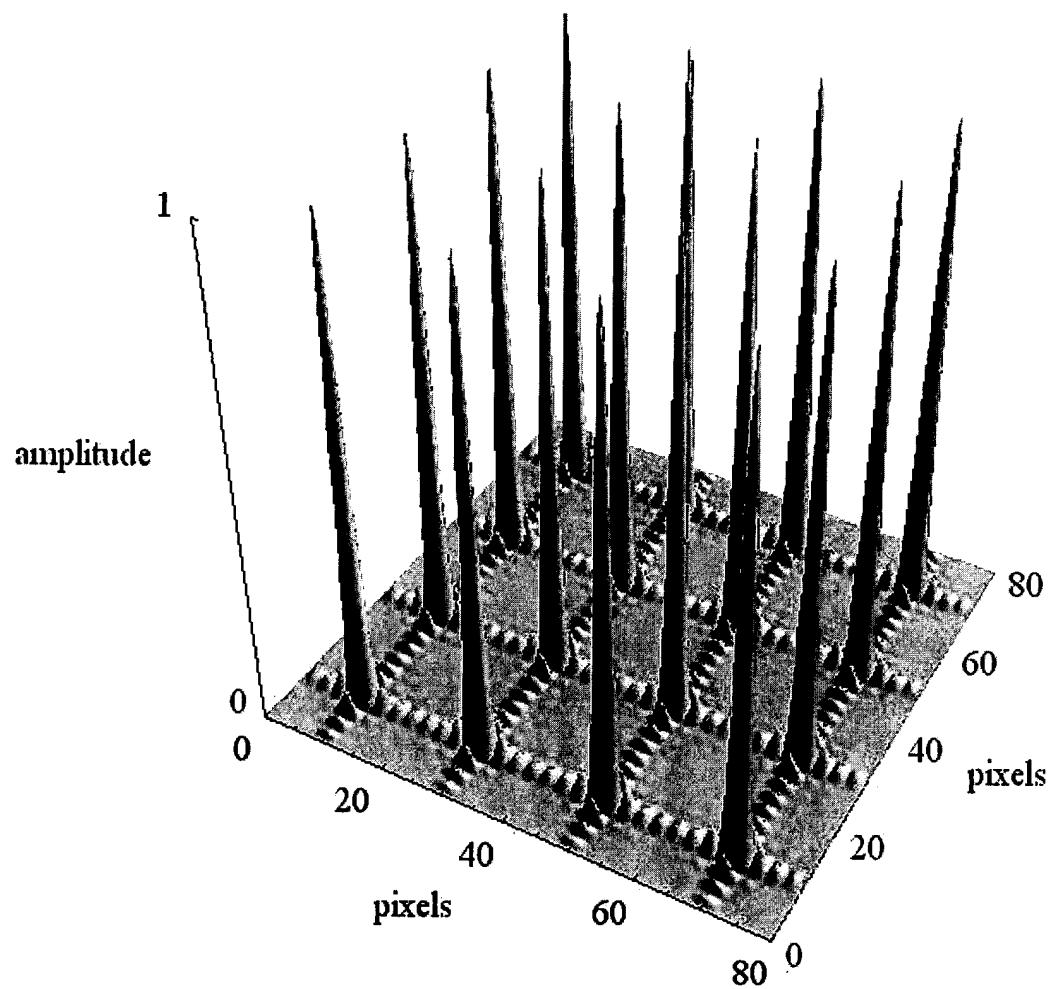


FIG. 2A

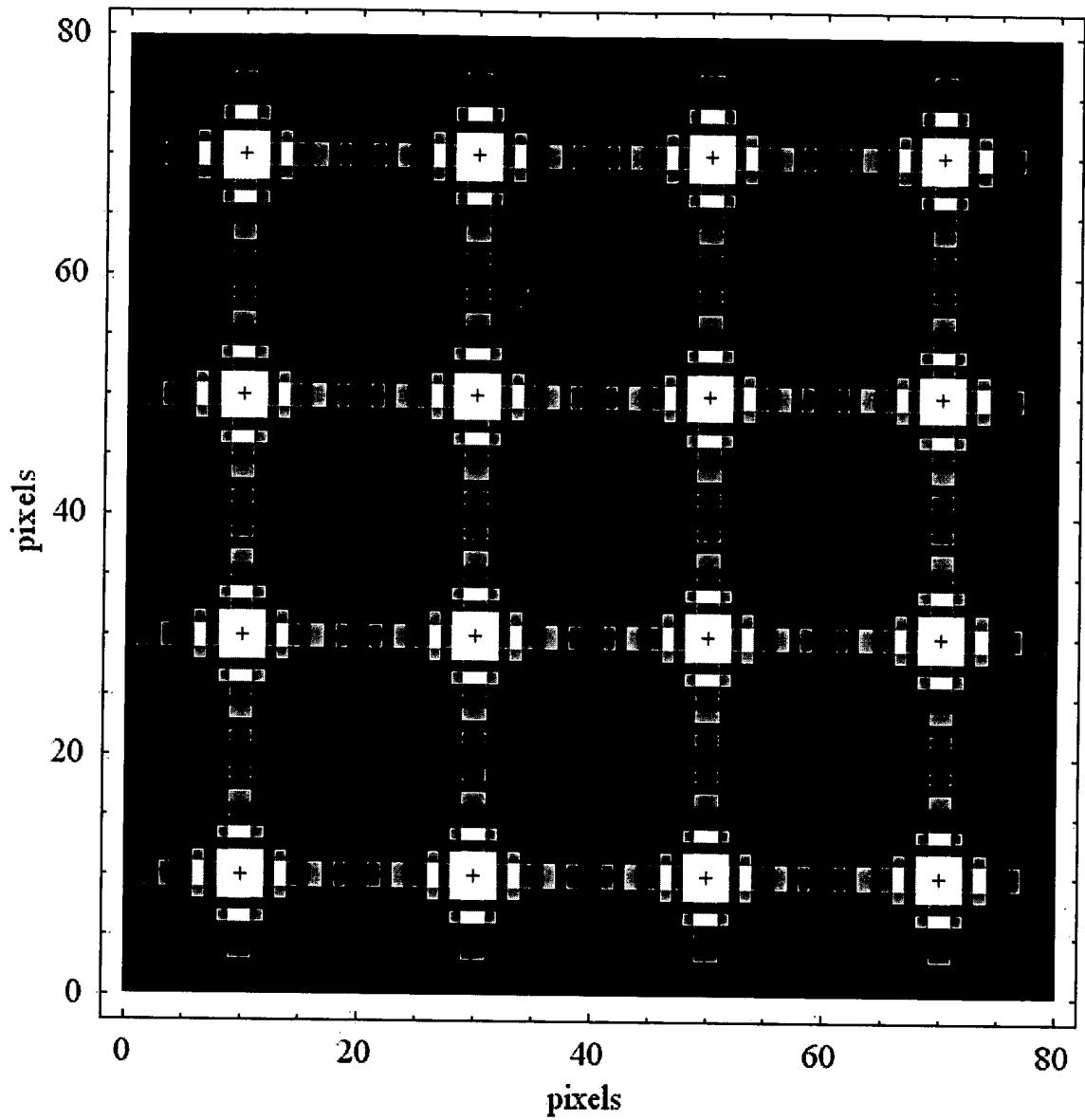


FIG. 2B

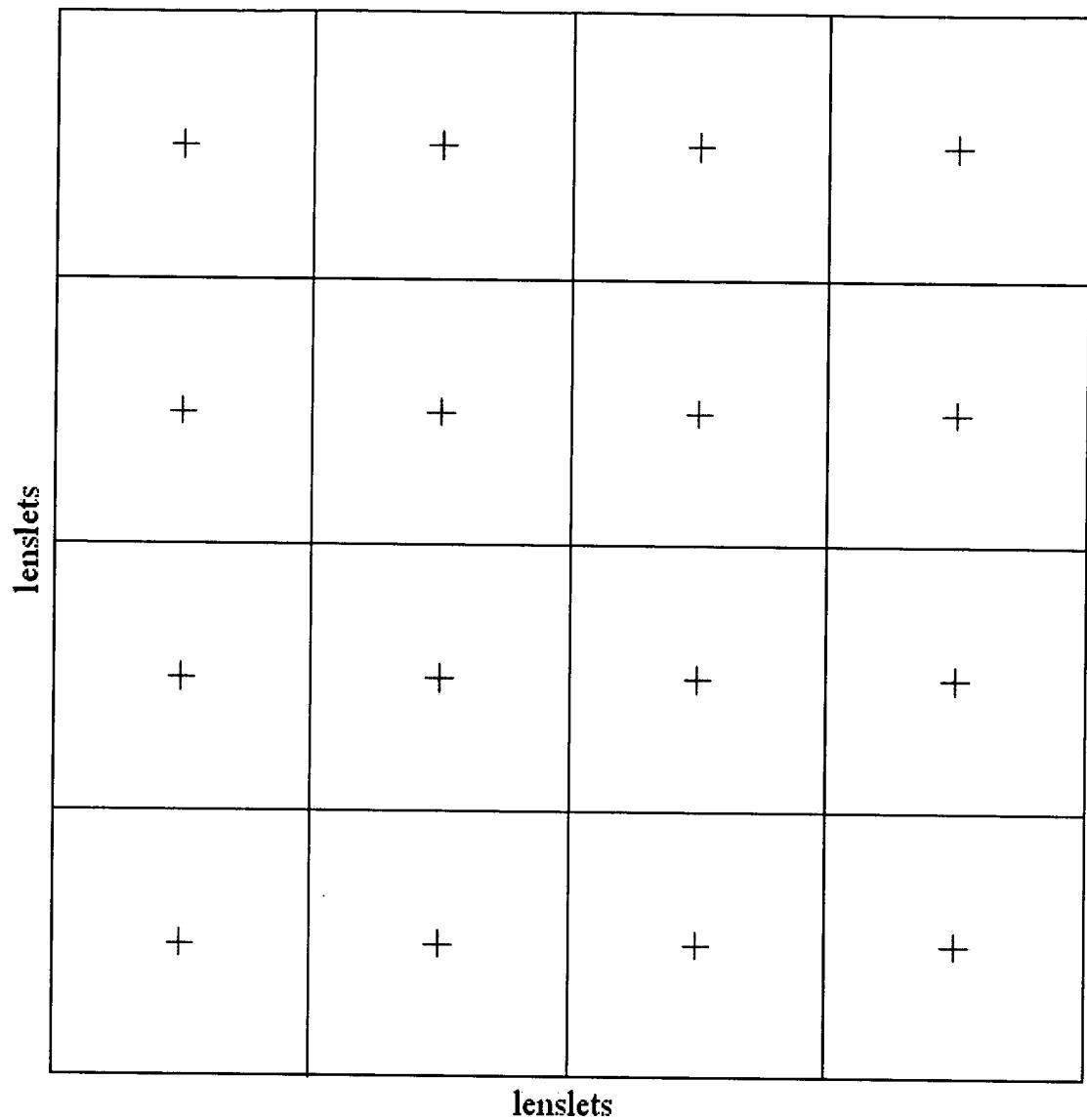


FIG. 2C

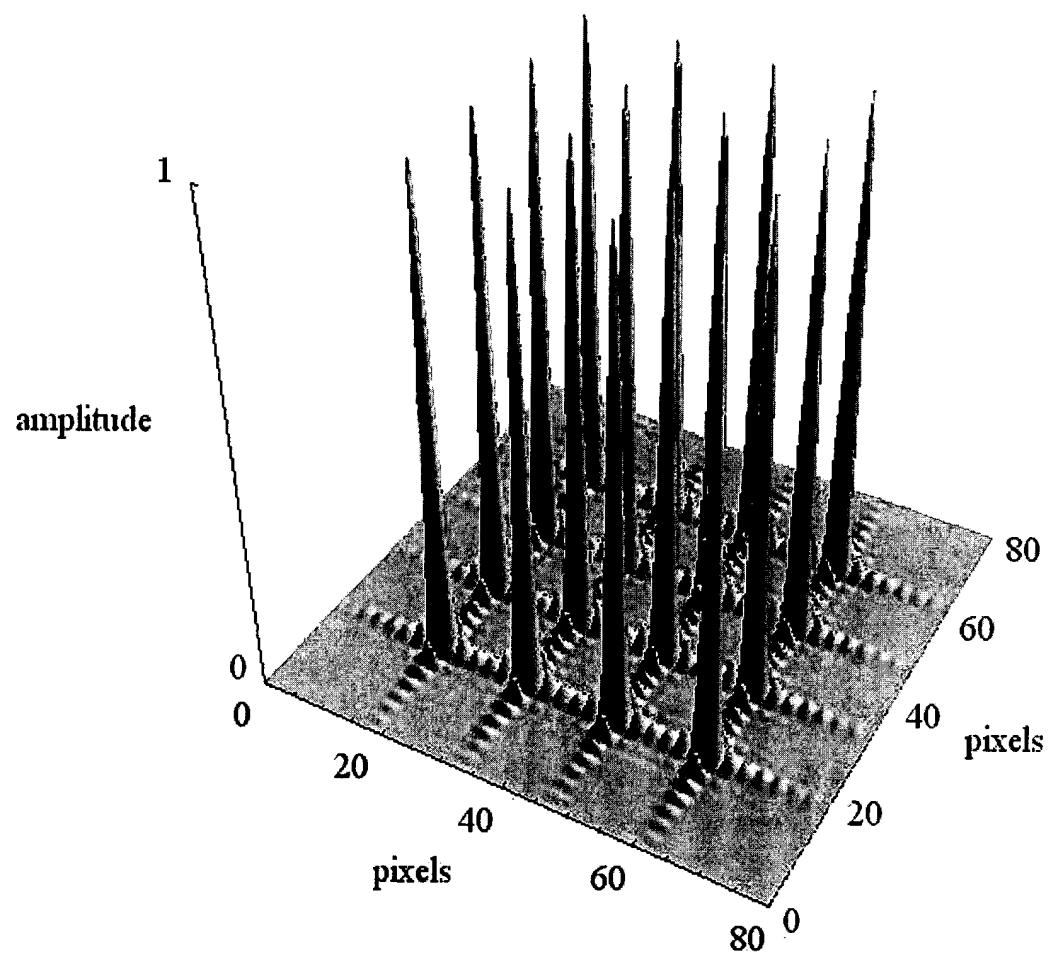


FIG. 2D

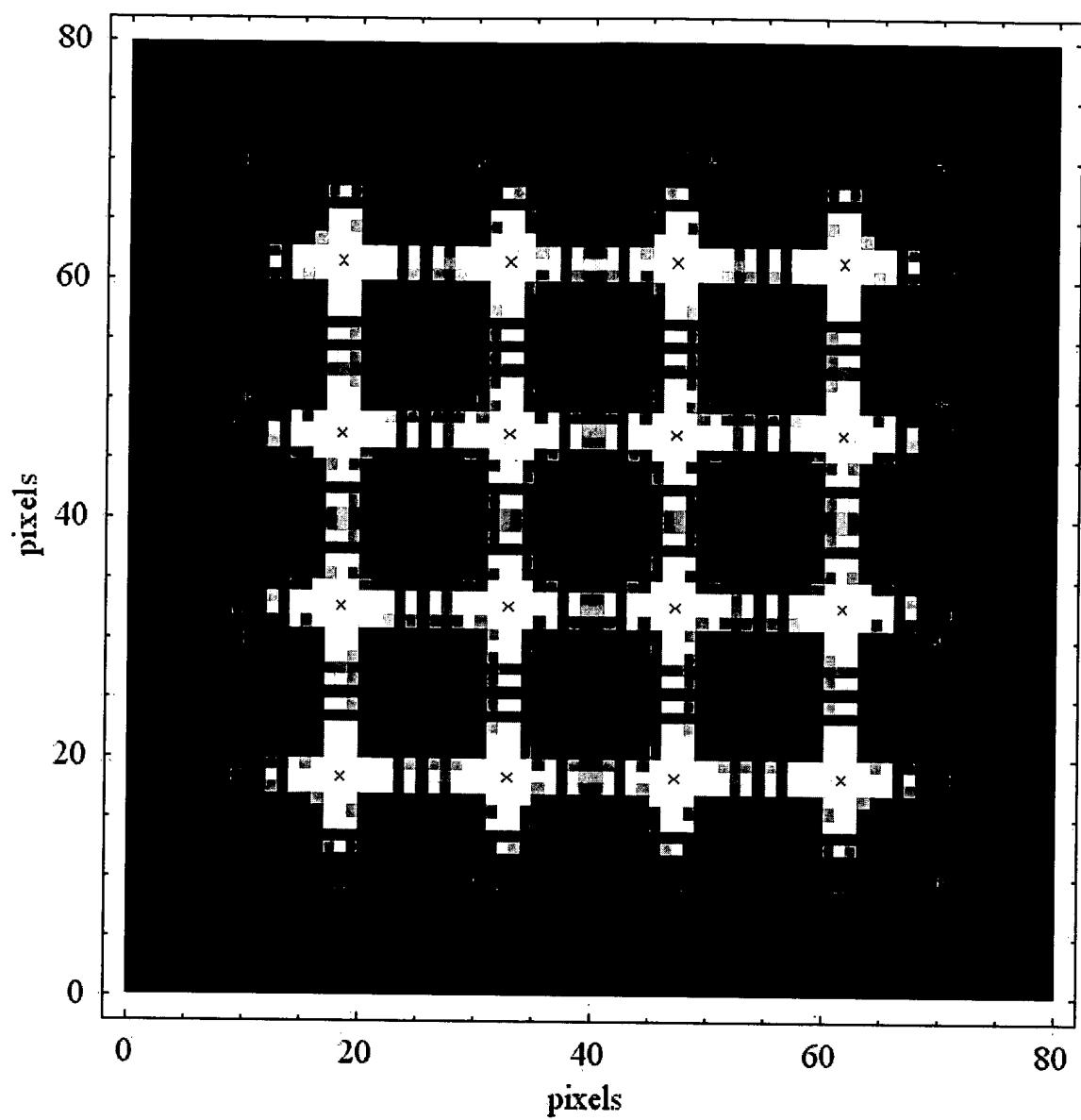


FIG. 2E

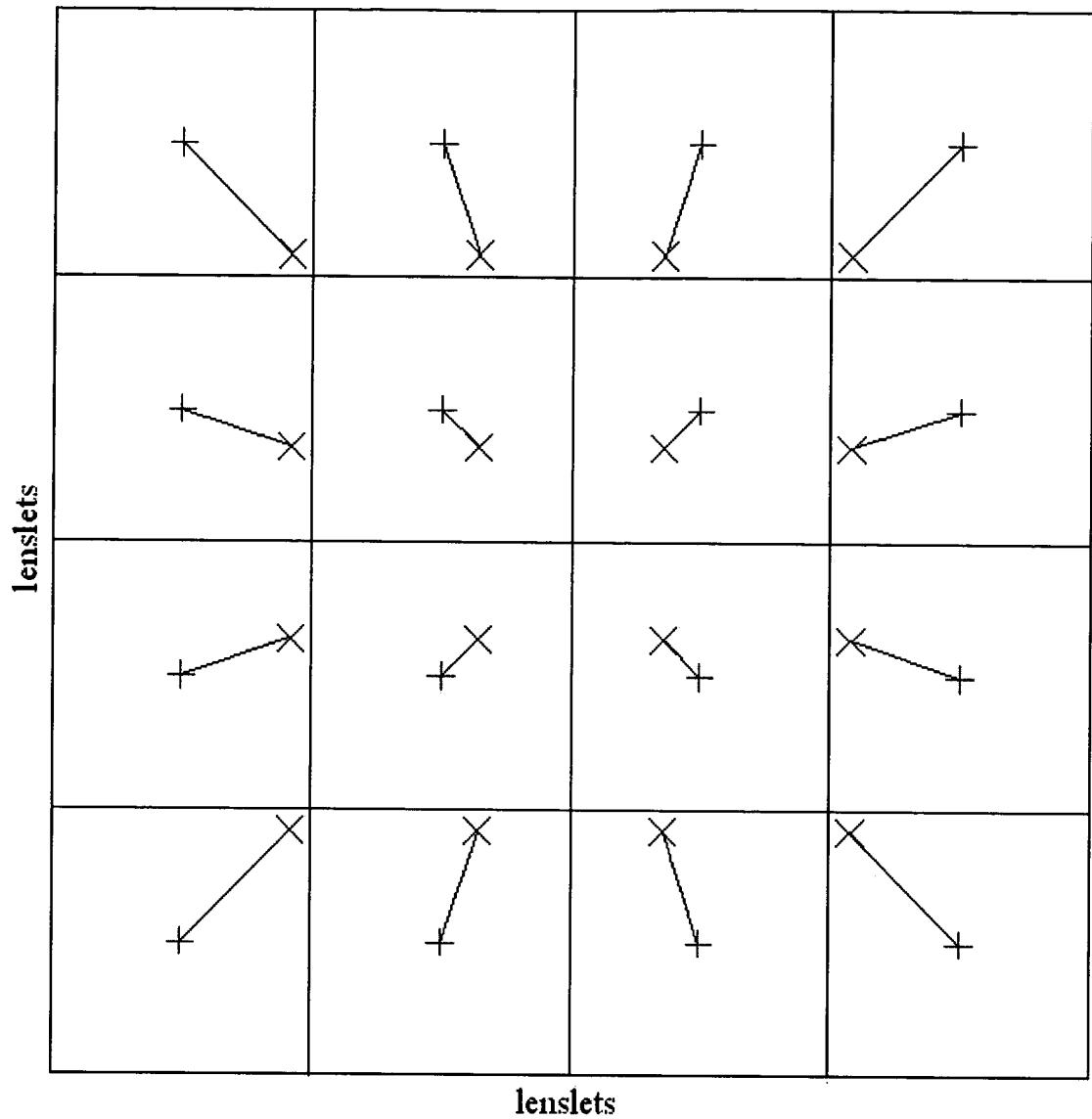


FIG. 2F

incident wavefront

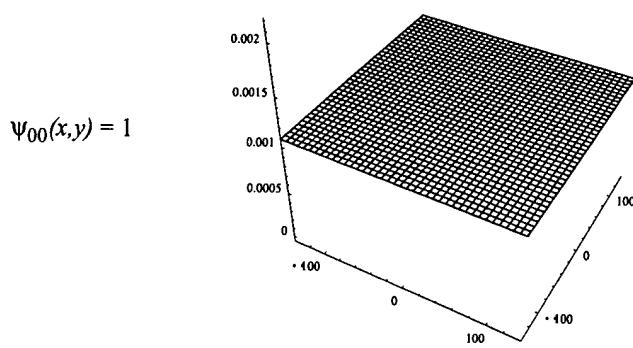


FIG. 3A

irradiance distribution

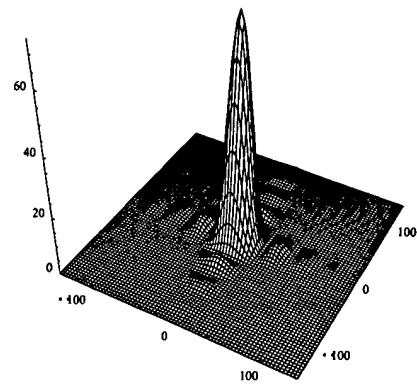


FIG. 3D

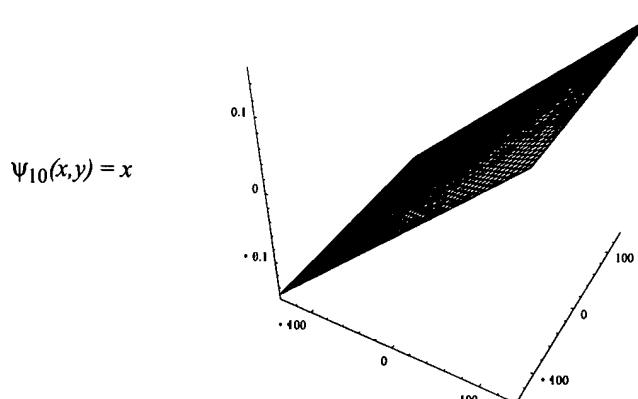


FIG. 3B

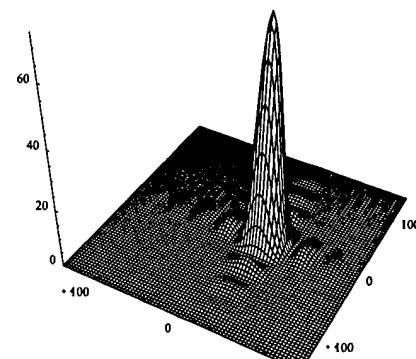


FIG. 3E

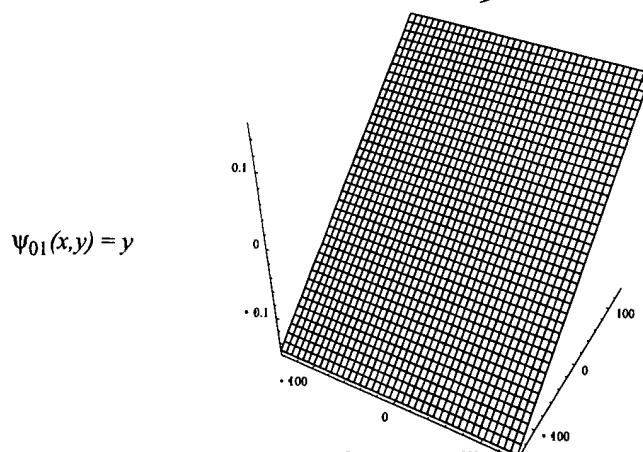


FIG. 3C

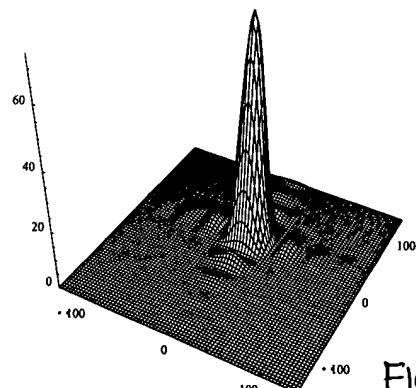


FIG. 3F

Figure 3: The planar wavefronts incident upon a lenslet. The first column shows the functional form of the incident wavefront. The second column graphically shows the wavefront incident upon the lenslet. The final column is a plot of the spatial irradiance distribution in the focal plane. Note that in these examples over 95% of the light is confined to an area the size of a lenslet. The x and y axes are in microns. The vertical scale in the first column is also in microns. The vertical axis on the second column represents intensity and is in arbitrary units.

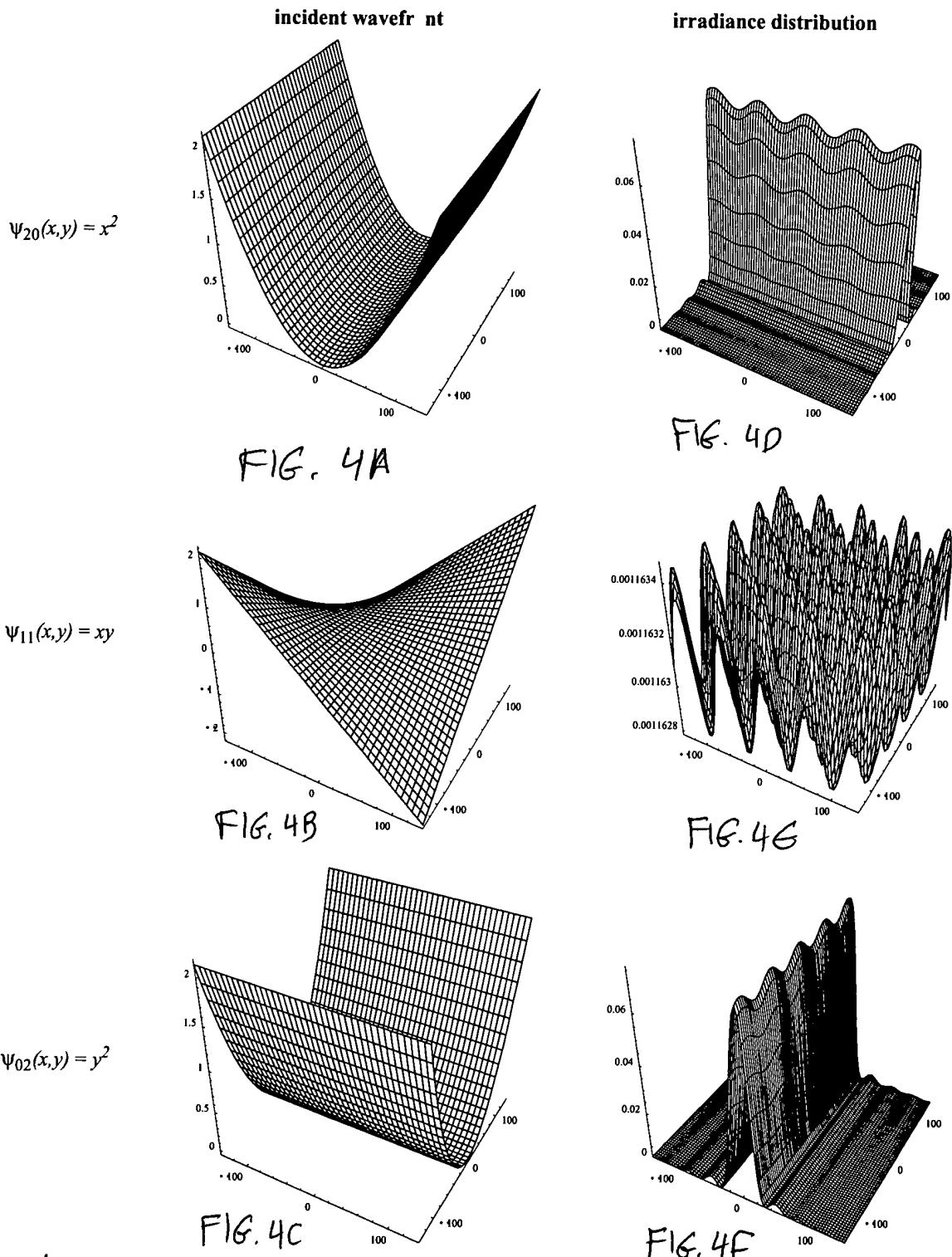


Figure 4: The next three terms in the series of increasingly more complicated incident wavefronts. Clearly the focal spots are degrading rapidly where the incident wavefront has a non-planar structure. Notice the concept of a peak is ambiguous here and the center of mass computation could be highly problematic. Also, only a small portion of the light falls within the lenslet area. The x and y axes are in microns. The vertical scale in the first column is also in microns. The vertical axis on the second column represents intensity and is in arbitrary units.

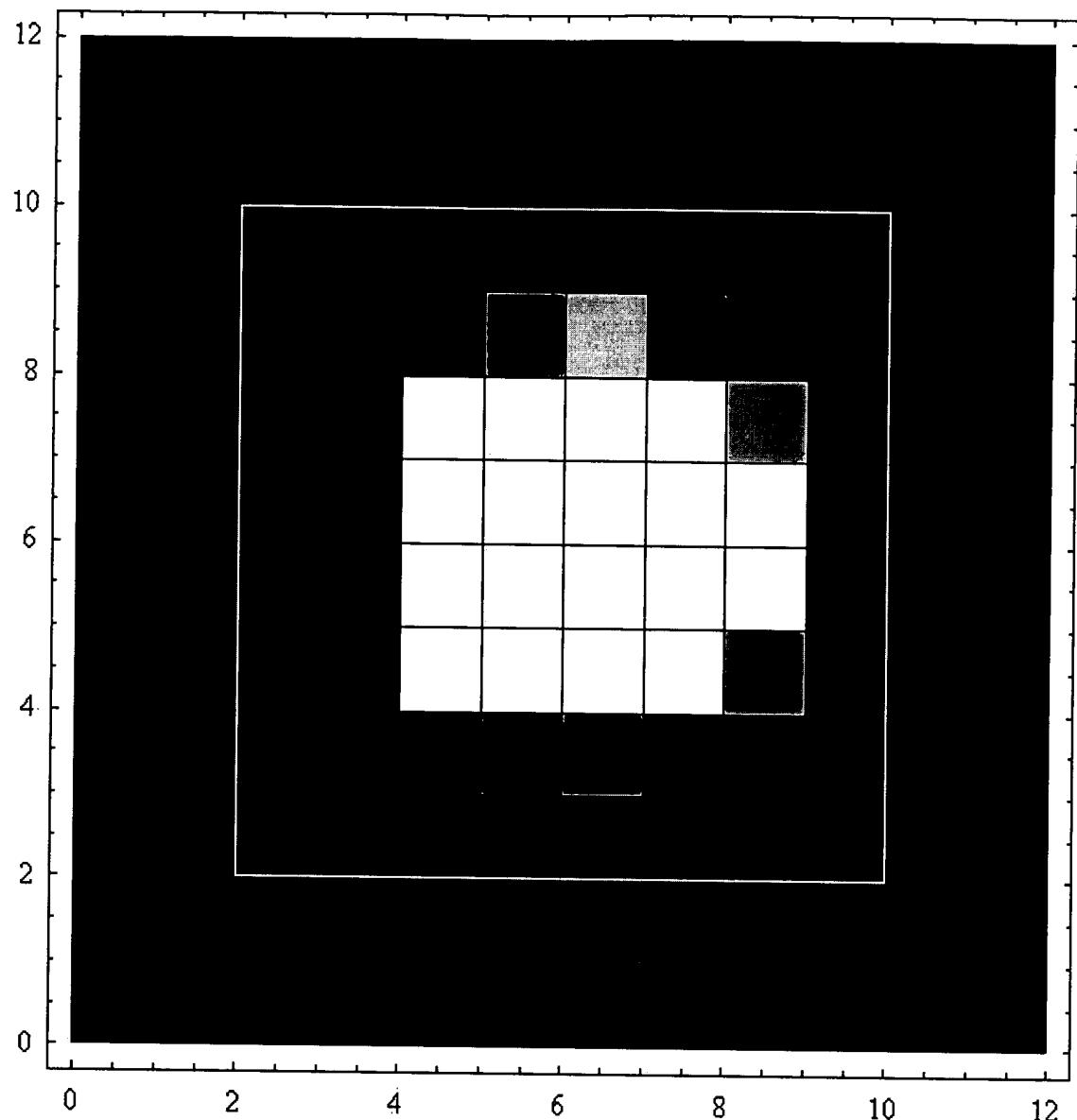


FIG. 5

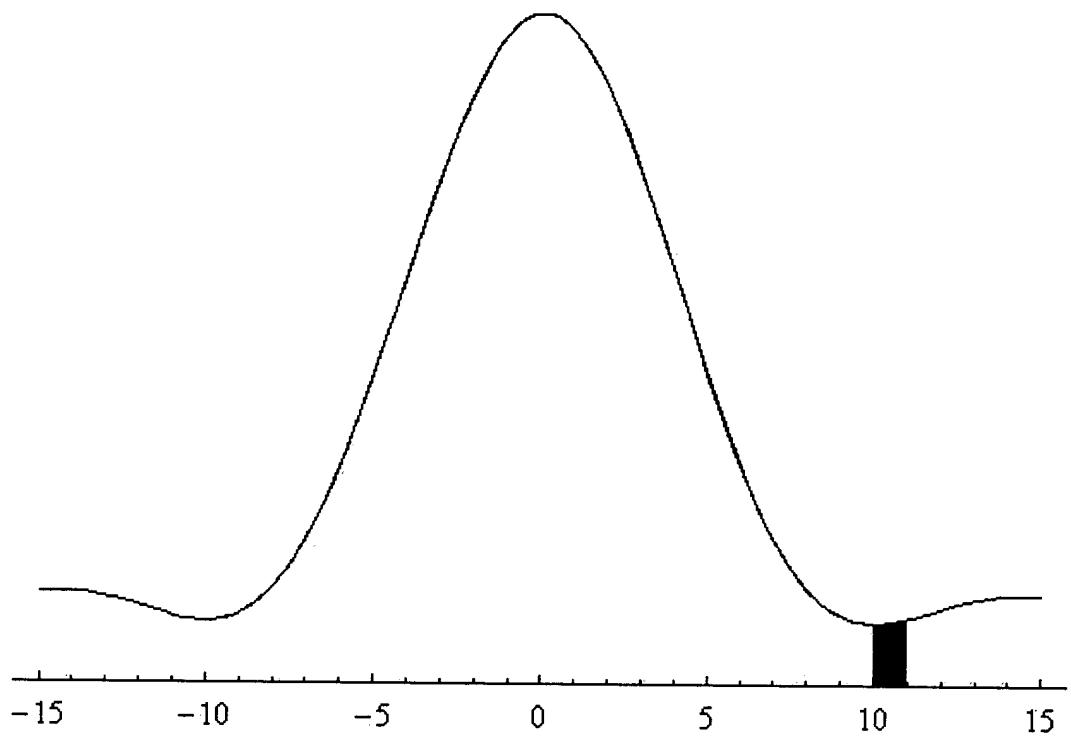


FIG. 6A

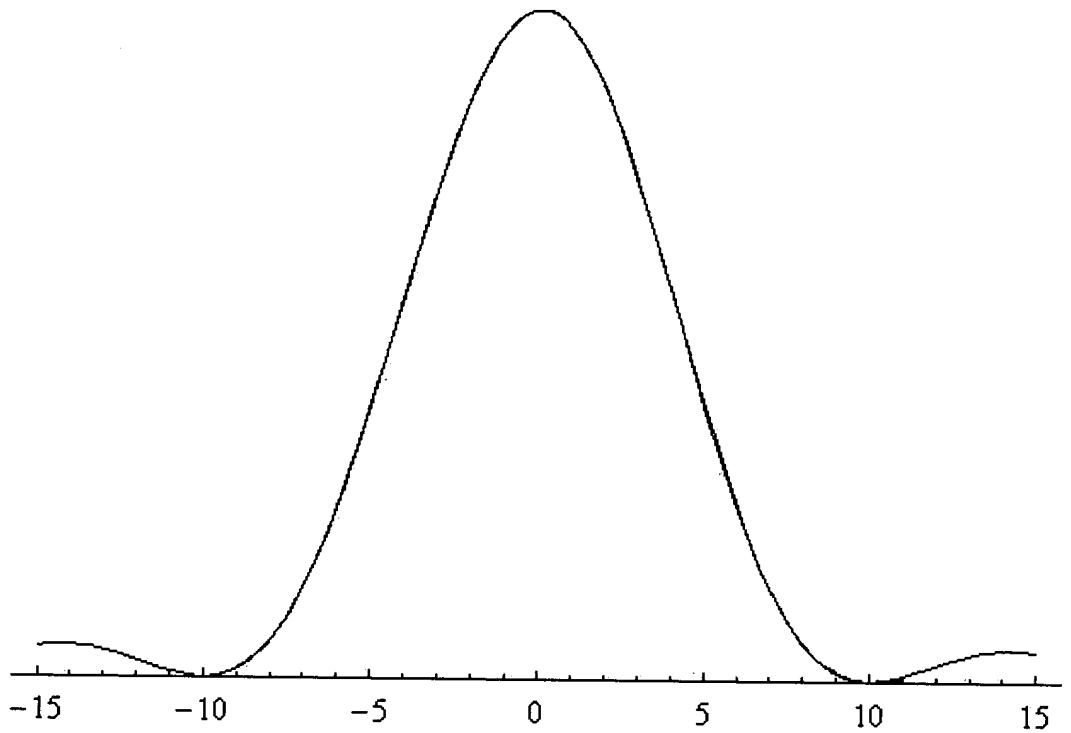


FIG. 6B

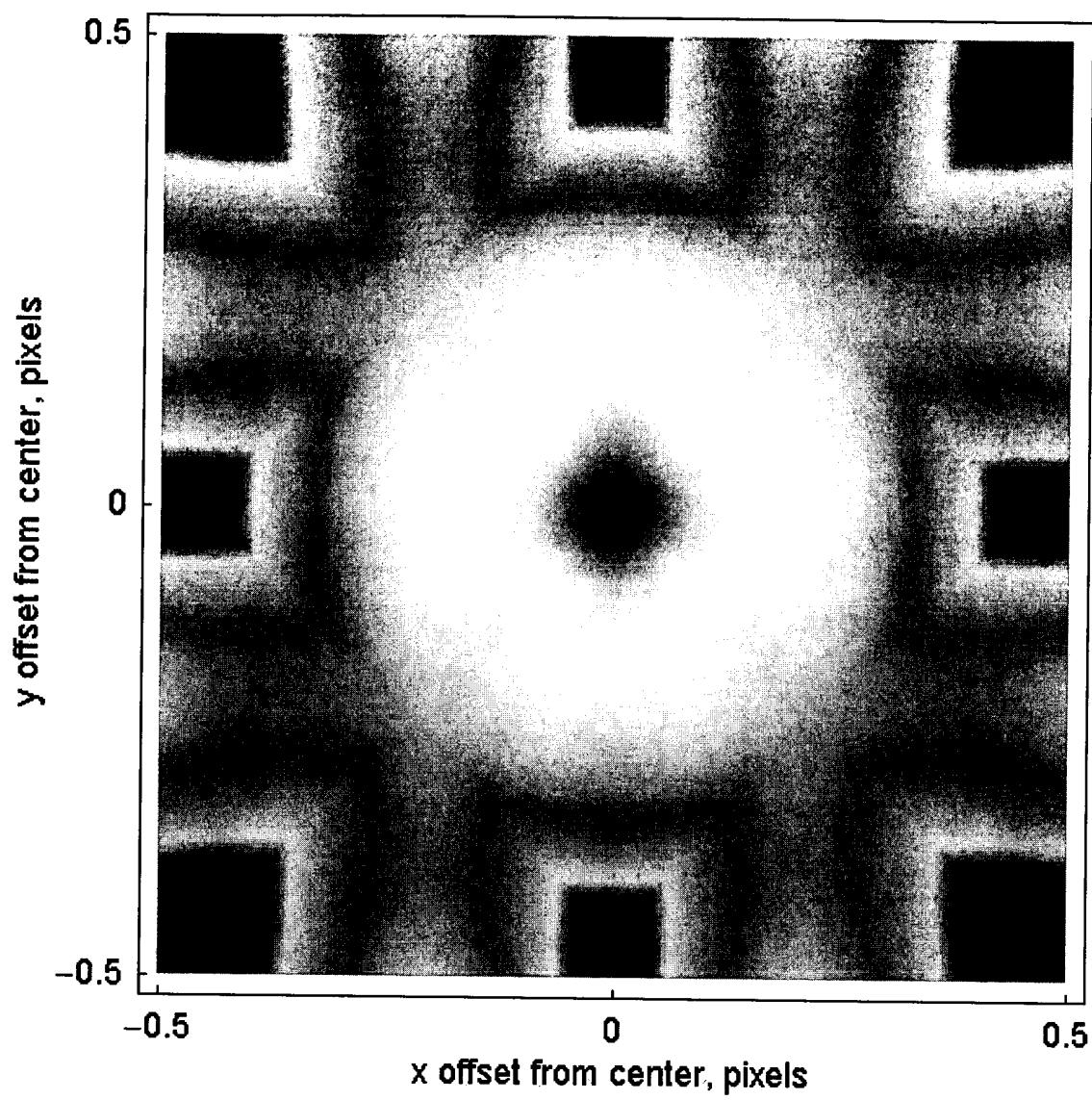


FIG. 7

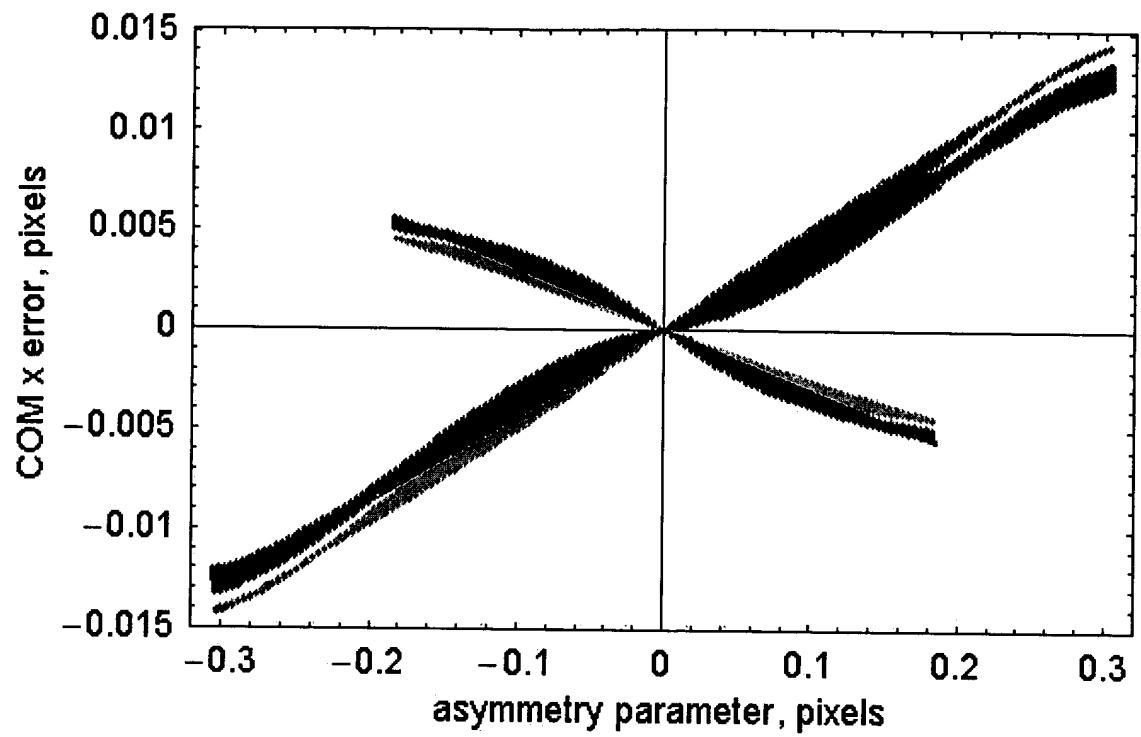


FIG. 8

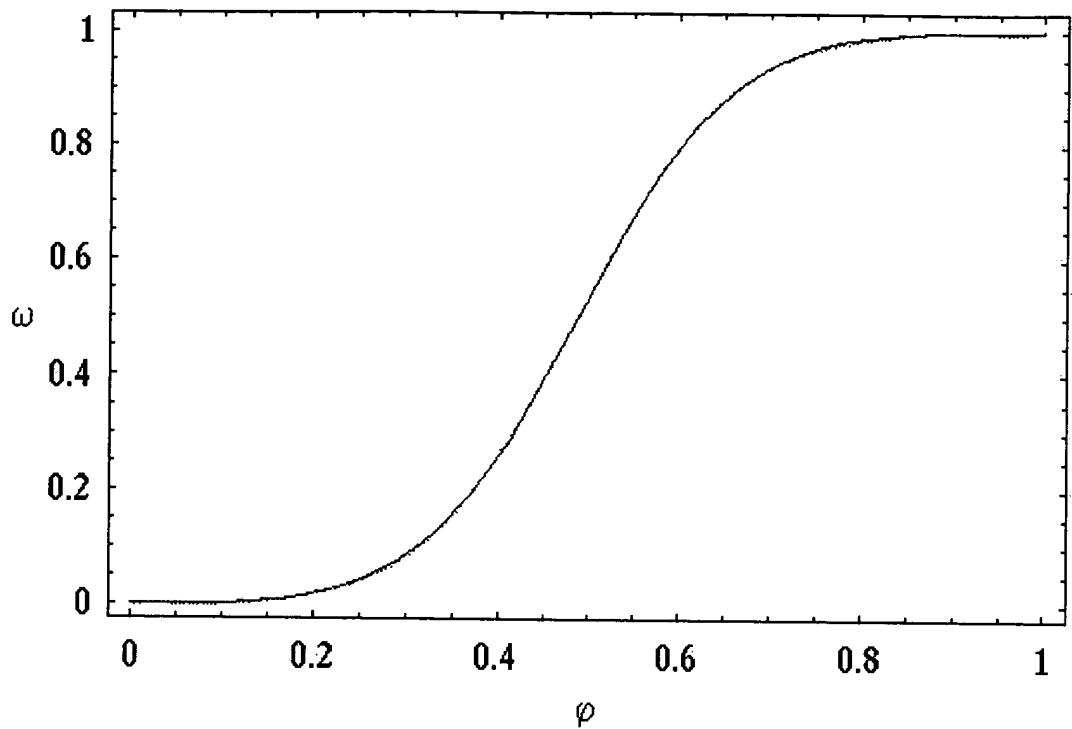


FIG. 9

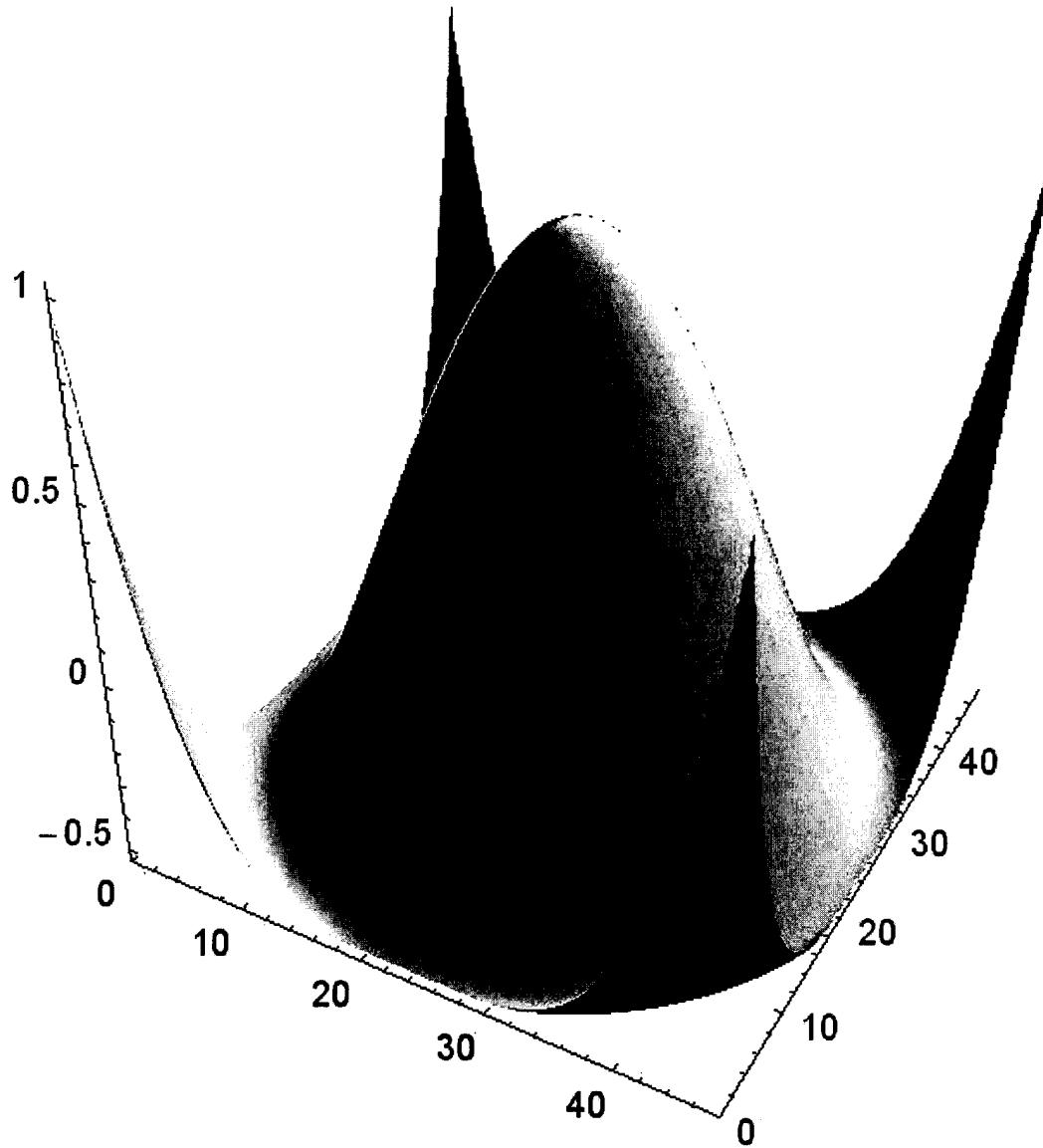


FIG. 10

focal spot shift, 1

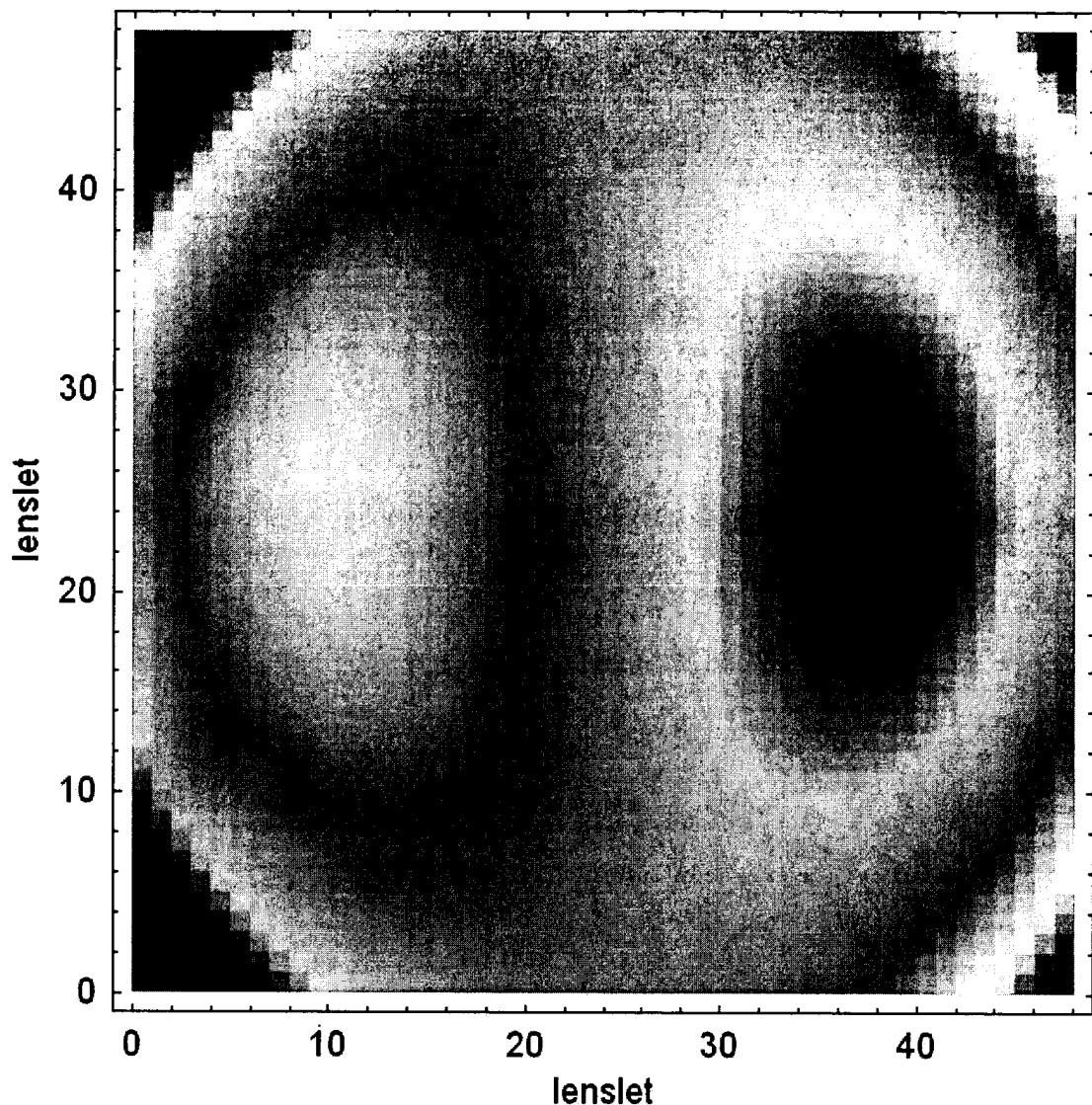


FIG. 11

focal spot shift, 2

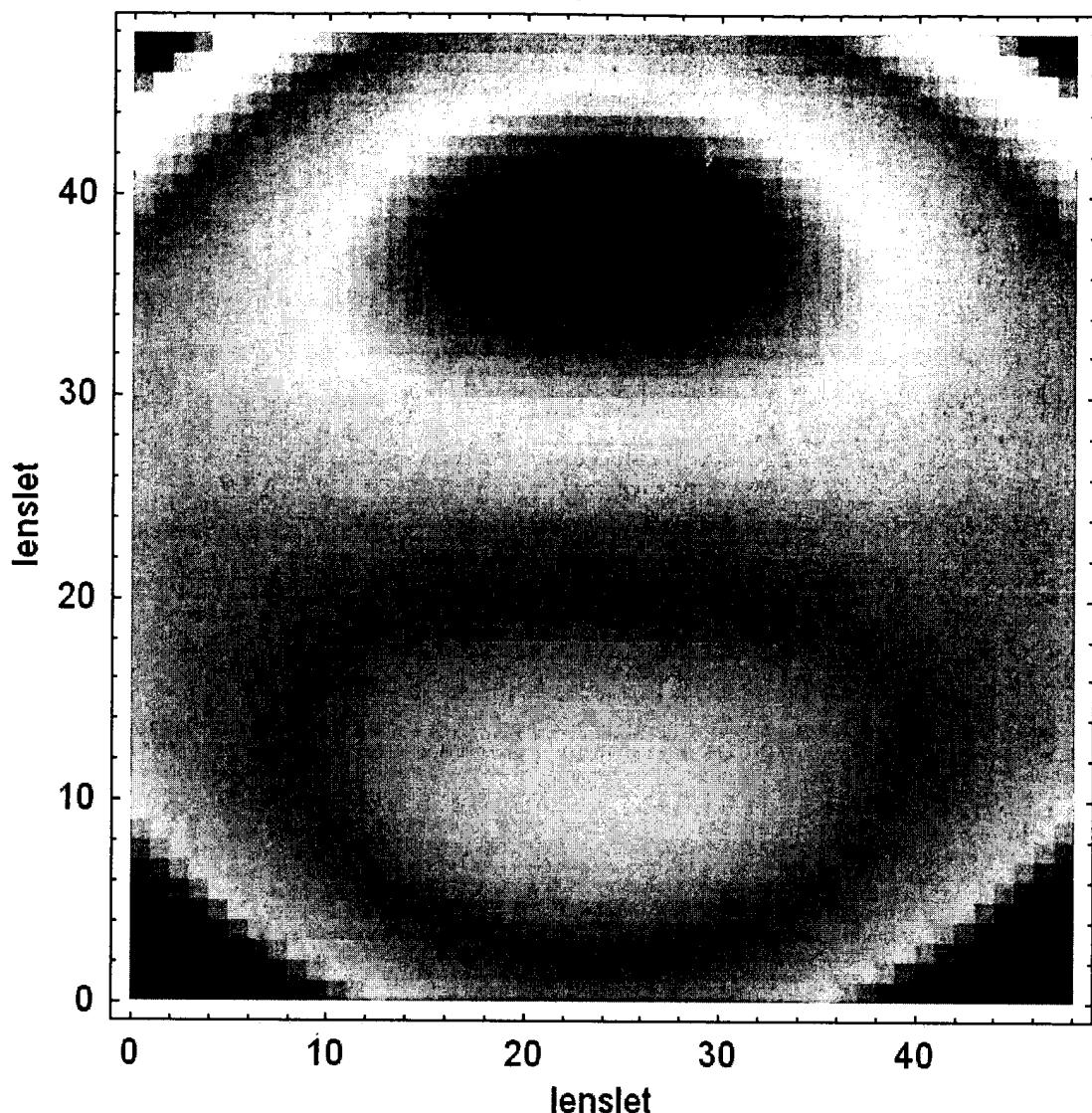


FIG. 12

zonal reconstruction

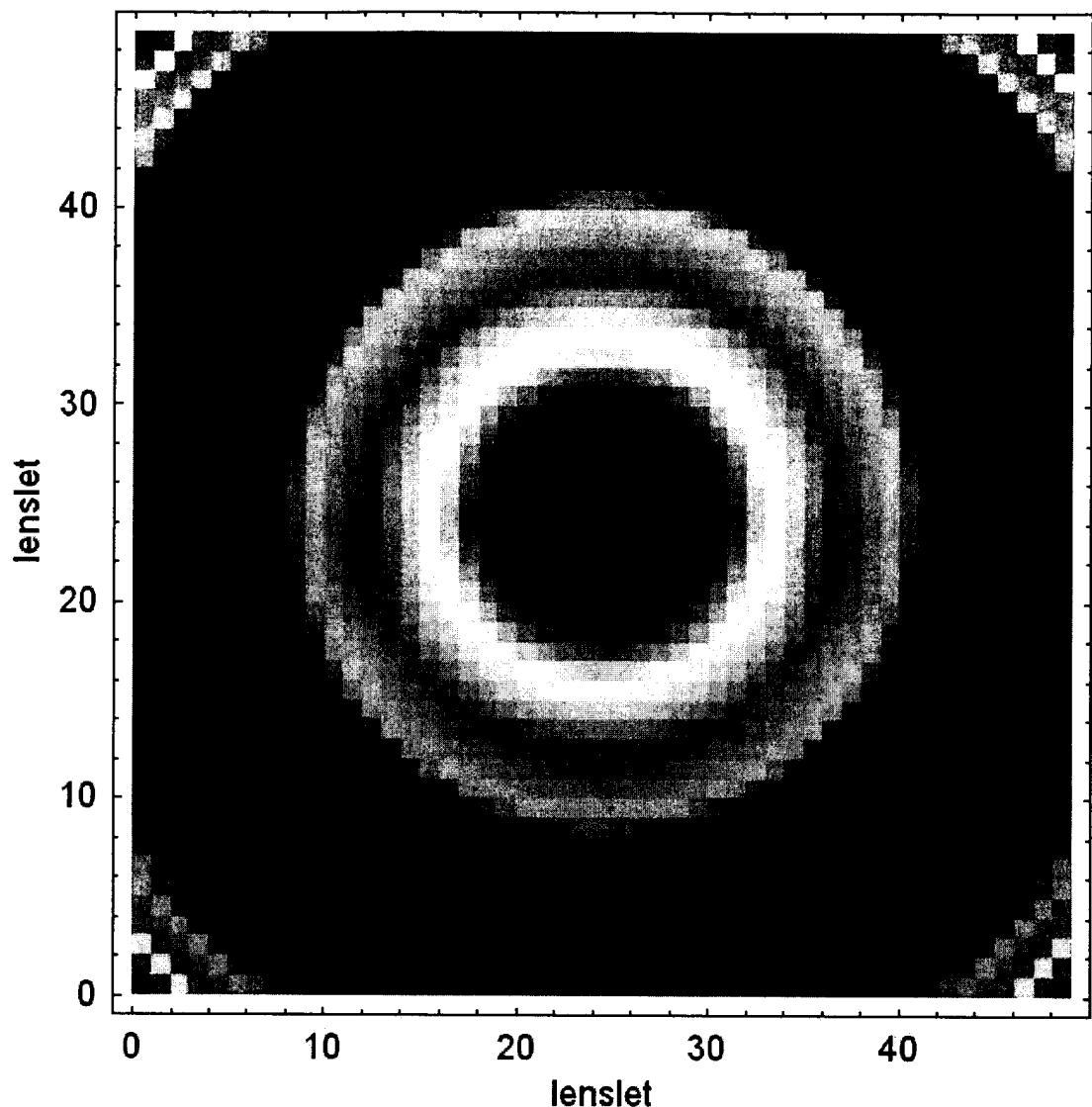


FIG. 13

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	.	

FIG. 14

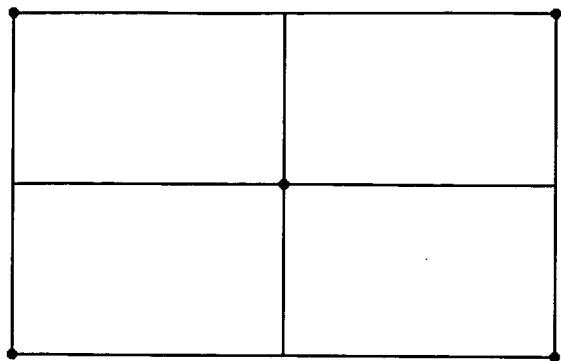


FIG. 15

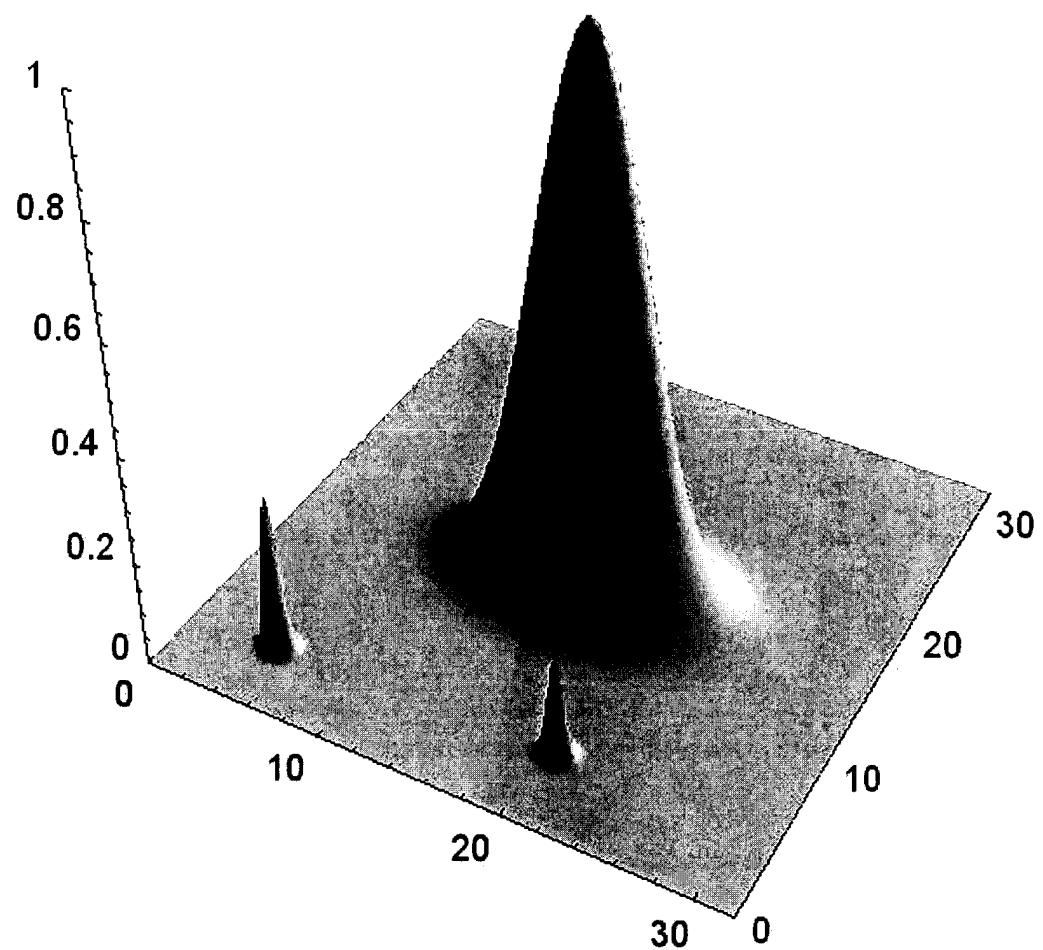


FIG. 16

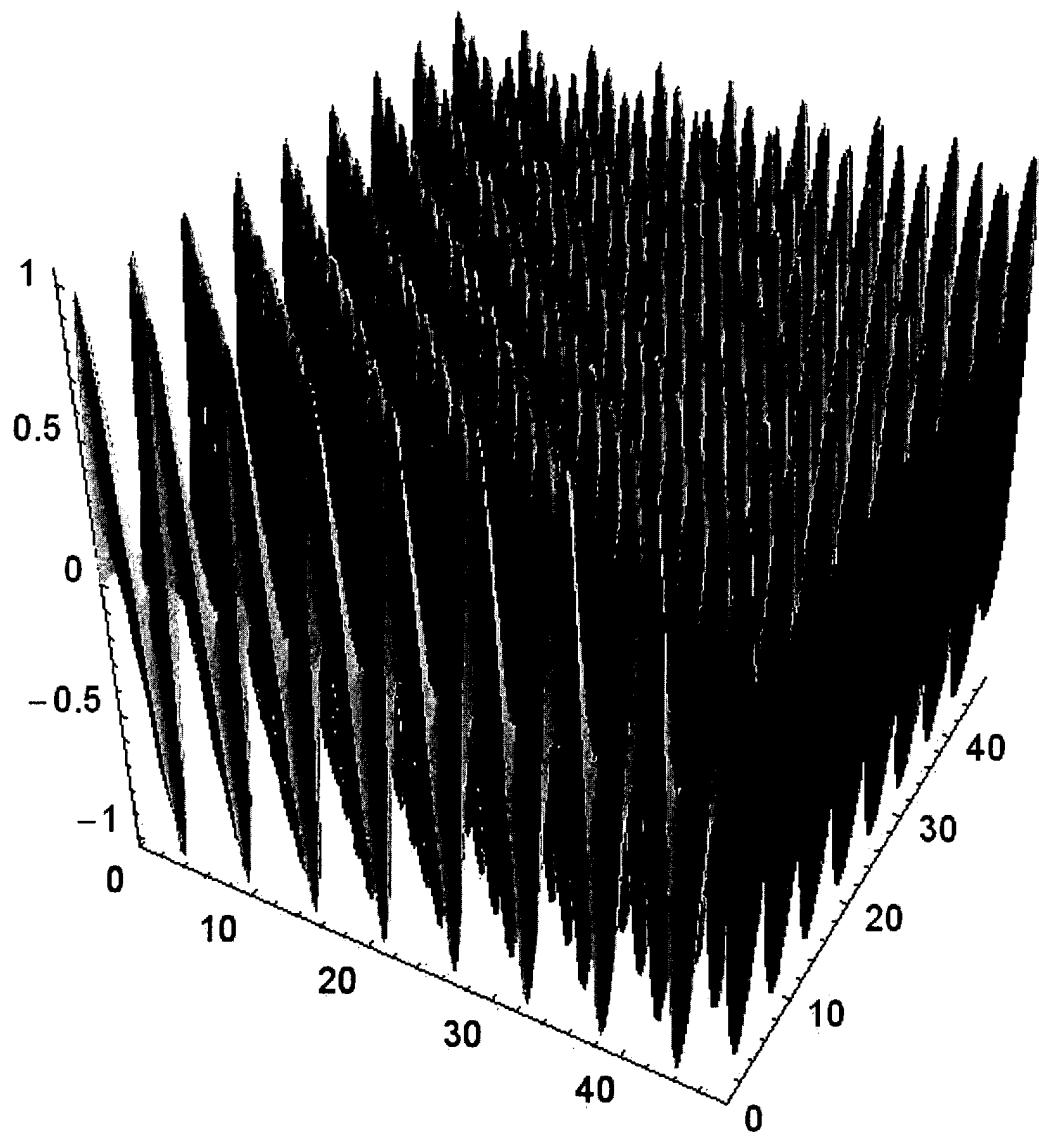


FIG. 17

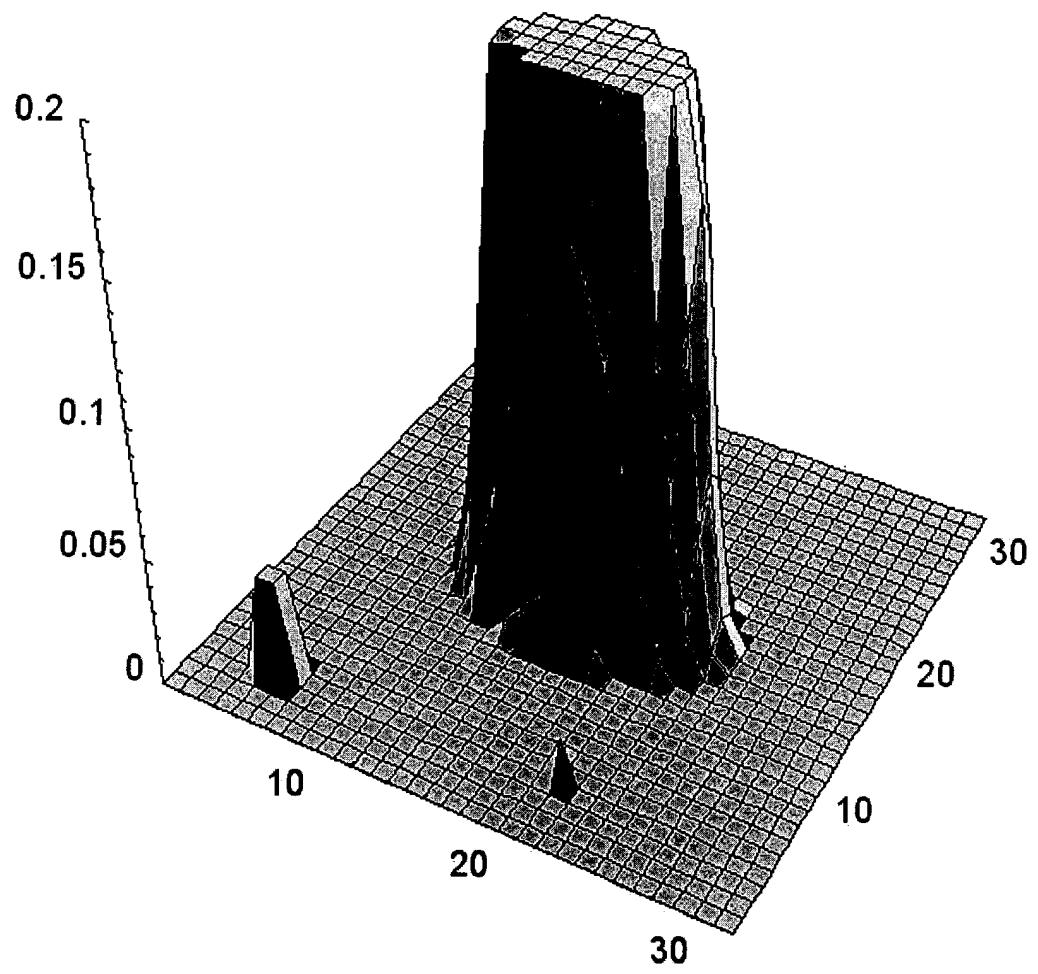


FIG. 18

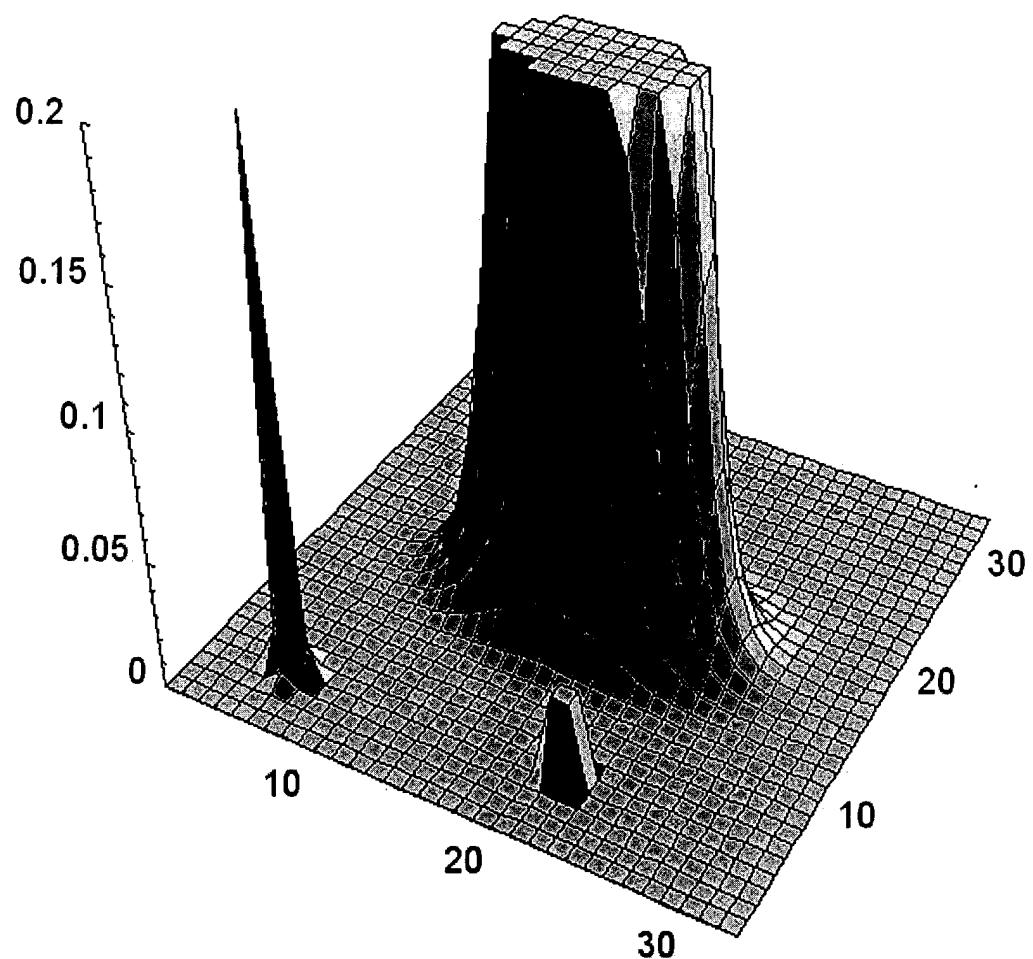


FIG. 19

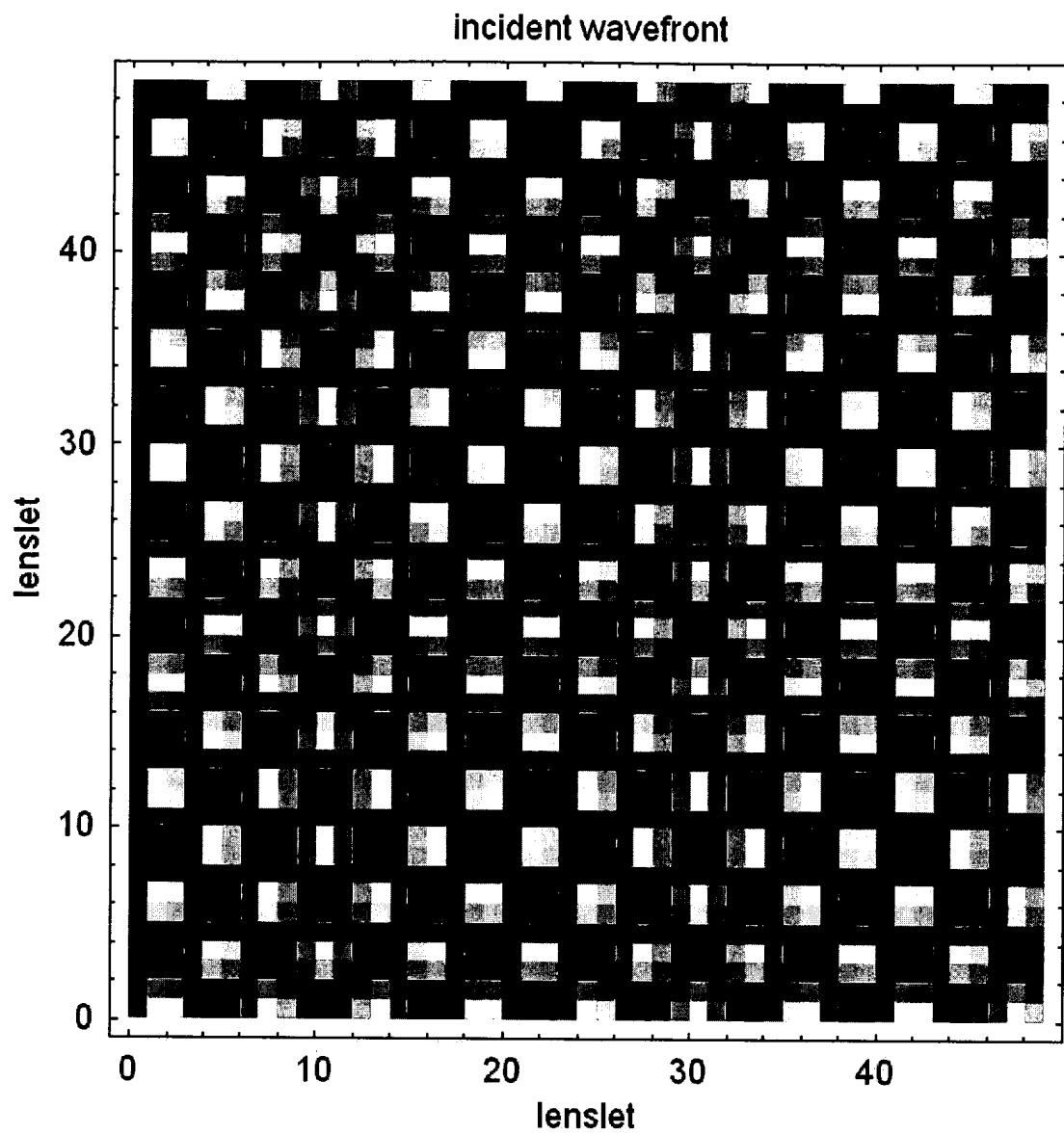


FIG. 20

Southwell reconstructor

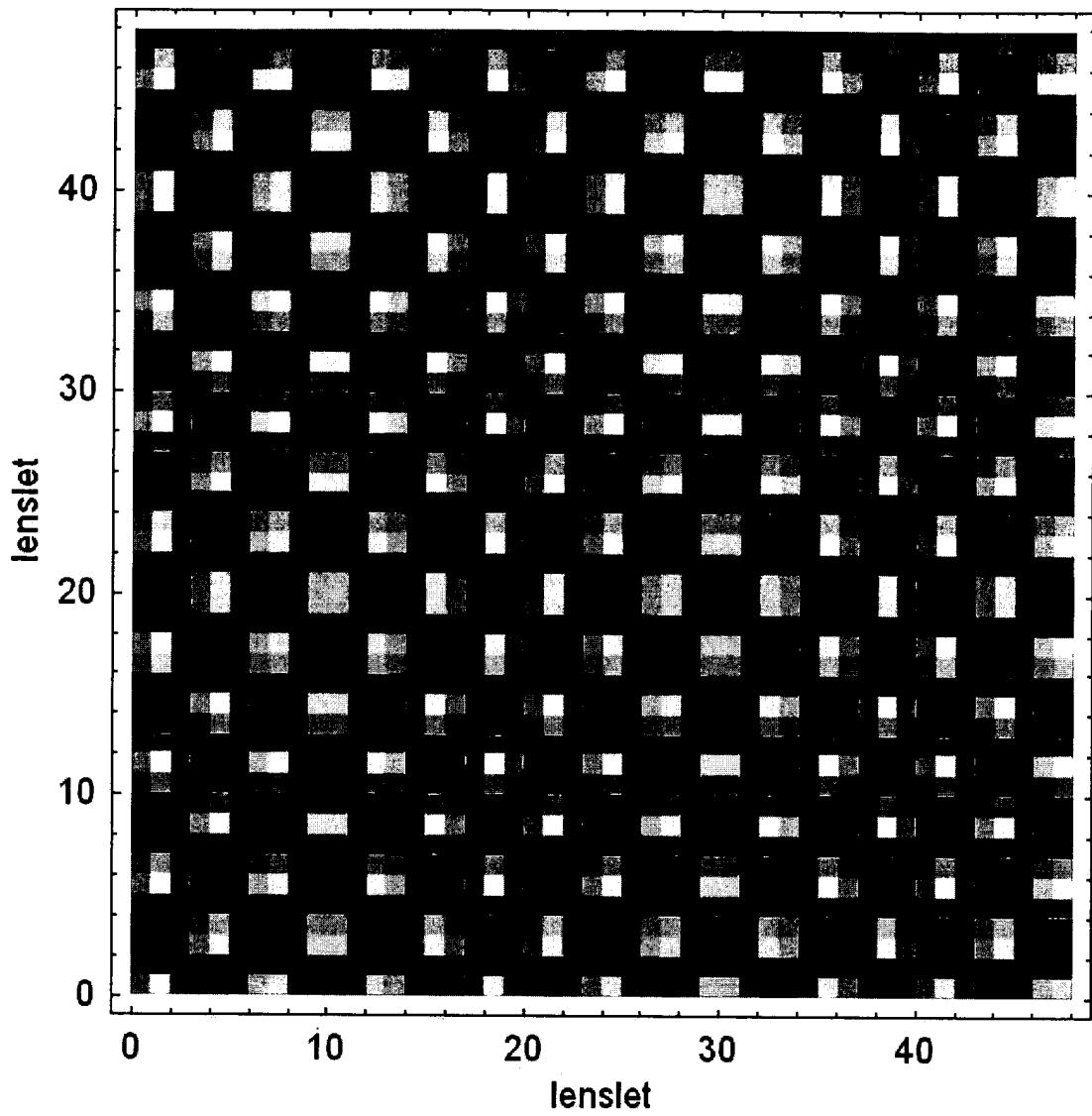


FIG. 21